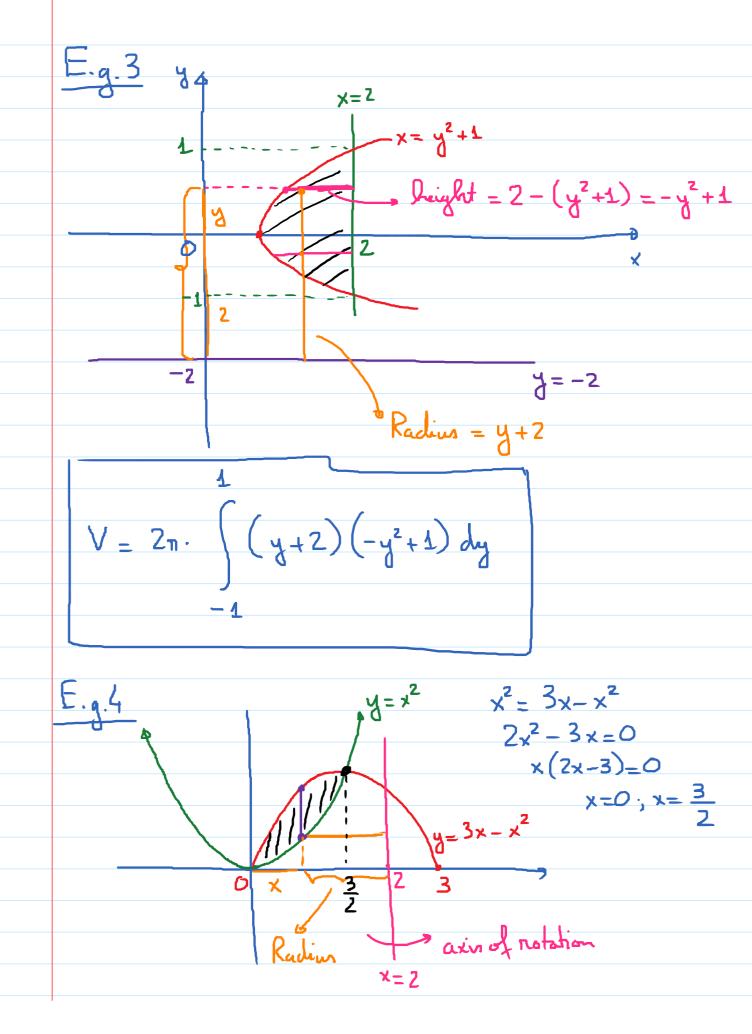


Tuesday, June 4, 2019 2:17 PM Shall Mathed axis of notation 3 Y= x-x , slice is penallel to aris of rotation height X radius cross-section area = (circumference) (height) = 211. (radius) · (height) $= 2\pi \cdot (x) \cdot (x - x^3)$ Volume of a small shall = $2\pi \cdot x \cdot (x - x^3) \cdot dx$ -1 licheness $V_{\text{Nolid}} = \left(2\pi \cdot \mathbf{x} \cdot (\mathbf{x} - \mathbf{x}^3) \cdot d\mathbf{x} \right)$ $= 2\pi \cdot \int x(x-x^3) dx = 2\pi \int (x^2-x^4) dx$

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$$V = 2\pi \cdot \left(\frac{x^{3}}{3} - \frac{x^{5}}{5}\right) \begin{vmatrix} 4 \\ 0 \end{vmatrix}$$
$$= 2\pi \left(\frac{4}{3} - \frac{4}{5}\right) = 2\pi \cdot \frac{2}{15} = \frac{4\pi}{45} \cdot \frac{2\pi}{45} \cdot \frac{2\pi}{5} = \frac{4\pi}{45} \cdot \frac{2\pi}{5} \cdot \frac{2\pi}{5} = \frac{4\pi}{45} \cdot \frac{2\pi}{5} \cdot \frac{2\pi}{5} \cdot \frac{2\pi}{5} \cdot \frac{2\pi}{5} = \frac{4\pi}{45} \cdot \frac{2\pi}{5} \cdot \frac{2\pi}{5} \cdot \frac{2\pi}{5} = \frac{4\pi}{45} \cdot \frac{2\pi}{5} \cdot \frac{2\pi}{5$$

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Height = $3x - x^2 - x^2 = 3x - 2x^2$. $\frac{Radius = 2 - x.}{3|z}$ $V = 2\pi \cdot \int (2 - x) \cdot (3x - 2x^{2}) dx$ 0